



## **Environmental Engineering Section, Engineering Division (ED)**

The Environmental Engineering Section of Omaha District's Engineering Division provides engineering consulting services for district projects.

## **Mission**

The mission of the Environmental Engineering Section is to meet the civil engineering requirements of the Omaha District and the customers it serves, using sound engineering judgment, and incorporating state-of-the-art technologies in a timely and cost-effective manner.

## **Capabilities**

### **Domestic and Fire Water Systems**

- o Supply studies (capacity and source)
- o Water treatment plant design
- o Distribution system evaluation and analysis
- o Computerized network modeling
- o Hydraulic transient (Water Hammer) modeling
- o Performance testing
- o Fire hydrant flow testing
- o Hydraulic transient computerized data collection
- o Fire pump house design

### **Wastewater Systems Studies**

- o Inflow and infiltration
- o Collection system capacity
- o Waste characterization
- o Treatment technology screening
- o Disposal options
- o Treatment plant design
- o Domestic primary and secondary treatment
- o Tertiary treatment
- o Reuse systems
- o Industrial treatment systems
- o Constructed wetland systems

### **Operation and Maintenance (O&M)**

- o Preparation of performance criteria for contracted O&M services
- o Technical oversight of contracted O&M services
- o Treatment plant performance audits
- o Troubleshooting/startup assistance
- o O&M systems manual preparation
- o Complete civil design services using the latest in Computer-aided Drafting and Design and computer technology to develop plans, specifications, and quantity estimates.
- o Research and project development to define scopes, identify design alternatives, and perform preliminary assessment surveys.

### **Hazardous, Toxic and Radioactive Waste Remediation**

- o Groundwater pump and treat
- o Disposal options and reuse
- o Soil treatment
- o In-situ treatment systems



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